

Claims

1. A battery-operated screwdriver, having a housing (12, 18) with a handle
5 (14), in particular bent at an angle like a pistol grip, with a preferably fixedly
installed rechargeable battery (40), and with charge contact tongues (37) for
charging the battery (4) on a charger shell (22), characterized in that the battery-
operated screwdriver (10) has a battery (40), which is designed as a lithium ion
cell (Li ion cell) and can be placed in a chronologically undefined way, particularly
10 in intervals between uses, on a charger shell (22), and the charging mode can be
produced automatically; and that the charger shell (22) is intended as a holder for
storing tool inserts, particularly screwdriver bits, of the battery-operated
screwdriver (10) in captive fashion.
- 15 2. The battery-operated screwdriver as recited in claim 1, characterized in that
in the charging mode, the handle (14) protrudes so far from the charger shell (22)
that for removing the battery-operated screwdriver (10) it can comfortably be
grasped from beneath and/or largely encircled with the hand.
- 20 3. The battery-operated screwdriver as recited in claim 1, characterized in that
the charge contact tongues (37) protrude outward through lateral slots (35) in the
lower end of the handle (14) on both sides of the parting plane (15) on the side of
the internal angle and lock in the charging mode onto charge contacts (23) of the
charger shell (22), without requiring that separate cords or coupling plugs
25 be actuated.
4. The battery-operated screwdriver as recited in claim 1, characterized in that
the battery-operated screwdriver (10), in the charging mode, fits with the
indentations (33) in its handle (14) over the resilient charge contacts (23) on the

charger shell (22) and is thus secured in overlocking fashion against unintentional release from the charger shell.

5 5. The battery-operated screwdriver as recited in claim 1, characterized in that the charger shell (22) has embedding means (25, 251, 252) on its top side for receiving the battery-operated screwdriver (10), which correspond to a copy of its internal angle outer surfaces that are enclosed by the handle (14) and the motor housing (12) and the gearbox (18); and that at least one of the embedding means (25, 251 252) extends at an angle of less than 90° to the vertical.

10 6. The battery-operated screwdriver as recited in claim 1, characterized in that the handle (14) enters in wedgelike fashion only with its ON/OFF button (26) into the embedding means (25, 251, 252) of the charger shell (22), and the handle (14) itself protrudes from the charger shell (22) and dips only minimally into the
15 embedding means (25, 251, 252).

7. The battery-operated screwdriver as recited in claim 1, characterized in that the charger shell (22) can be placed, standing securely, on a flat and in particular horizontal storage shelf, without having to be secured and firmly held when the
20 battery-operated screwdriver (10) is removed.

8. A charger shell for a battery-operated screwdriver (10) as recited in one of claims 1 through 7, characterized in that it has at least one, in particular detachably, mountable bit holder (99), particularly for receiving a plurality of bits
25 (93), which in operation can be inserted, in particular plugged in in a manner secure against relative rotation, in communication with the battery-operated screwdriver (10).

9. The charger shell as recited in claim 8, characterized in that the bit holder

(99) is mountable laterally on the charger shell (22) and in the process is fitted flush into the outer contour of the charger shell (22), particularly in an overlockable fashion.

5 10. The charger shell as recited in claim 9, characterized in that the charger shell (22) has an elongated indentation (98) for receiving the bit holder (99), which indentation is longer than the bit holder (99) and which, with the bit holder (99) inserted, forms a permanent opening (96) for grasping from below with the finger for the sake of removing the bit holder (99).

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 11. The charger shell as recited in claim 10, characterized in that the bit holder (99) is located parallel to the indentation for the handle region of the battery-operated screwdriver (10).

15 12. The charger shell as recited in claim 11, characterized in that the bit holder (99) is kept in the signal color red, and the charger shell (22) is kept in the color black and/or dark green and/or dark blue.

 13. The charger shell as recited in claim 12, characterized in that input pinions
20 (73, 95) for the bits (93) are located extending perpendicular to the contour of the charger shell (22).

 14. The charger shell as recited in claim 13, characterized in that the charger
25 shell (22) has input pinions (73), disposed fixedly in its front region, for captively receiving screwdriver bits (93), particularly in one row parallel to the length of the bit holder (99).